

**Amendments to the Claims:**

The following listing of claims will replace any/all prior versions, and listings, of claims in the application:

**1. – 19.** (Canceled).

**20.** (New) A method comprising:

providing a plasma-sterilization indicator comprising at least one compound (A) selected from the group consisting of adsorption indicators and metal chelate-titration indicators; an organic metal compound (B); and a polyvalent alcohol (C);

forming a product via a cation in a reaction between the compound (A) and the organic metal compound (B); and

discoloring the product by hydrogen peroxide plasma-sterilization,

wherein:

the polyvalent alcohol (C) increases a discoloration speed of the discoloring of the product,

the absorption indicator is selected from indicators used in detection of metal ions that discolor upon adsorption on colloidal particles, and

the metal chelate-titration indicator is selected from the group consisting of organic colorants having a proton that can be replaced with a metal ion in the molecule and compounds having multidentate ligands that can form a chelate compound by binding to a metal ion.

**21.** (New) The method according to Claim **20**, wherein the compound (A) is selected from the group consisting of hematoxylin, Mordant Blue 29, Eriochrome Black T, xylenol orange, and 1-(2-pyridylazo)-2-naphthol (PAN).

**22.** (New) The method according to Claim **20**, wherein the organic metal compound (B) is selected from the group consisting of aluminum chelate compounds, titanium chelate compounds, and zirconium chelate compounds.

**23.** (New) The method according to Claim **20**, wherein the polyvalent alcohol (C) comprises at least one glycol selected from the group consisting of ethylene glycol, diethylene glycol, polyethylene glycol, propylene glycol, and dipropylene glycol.